

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/003094

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A01N63/00, C12N1/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A01N63/00-63/02, C12N1/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 00/49875 A1 (Kureha Chemical Industry Co., Ltd.), 31 August, 2000 (31.08.00), Claims; page 7, lines 21 to 27; test examples & JP 2003-89612 A	1, 3, 4, 6-8 2, 5, 9
X A	JP 5-91869 A (Yukishitsu Hiryo Seibutsu Kasei Riyo Gijutsu Kenkyu Kumiai), 16 April, 1993 (16.04.93), Claims; Par. No. [0010]; examples (Family: none)	1, 3, 4, 6-8 2, 5, 9
X A	JP 6-133763 A (Showa Denko Kabushiki Kaisha), 17 May, 1994 (17.05.94), Claims; Par. No. [0016]; examples (Family: none)	1, 3, 4, 6-8 2, 5, 9

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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| * Special categories of cited documents: | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
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| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
25 April, 2005 (25.04.05)Date of mailing of the international search report
17 May, 2005 (17.05.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓ A	JP 2001-346407 A (Kabushiki Kaisha TS Shokubutsu Kenkyusho), 18 December, 2001 (18.12.01), Claims; examples (Family: none)	1, 3, 4, 6-8 2, 5, 9
X A	WO 03/46157 A1 (Kumiai Chemical Industry Co., Ltd.), 05 June, 2003 (05.06.03), Claims; page 6, examples & EP 1449914 A1 & US 2004/265292 A1 & JP 2003-219863 A	1, 3, 4, 6-8 2, 5, 9
X ✓ A	JP 2-209803 A (Kureha Chemical Industry Co., Ltd.), 21 August, 1990 (21.08.90), Claims; page 2, upper right column, lines 18 to 19; examples (Family: none)	1, 4, 6-8 2, 3, 5, 9
X ✓ A	JP 2003-289854 A (Yugen Kaisha Miroku Technology), 14 October, 2003 (14.10.03), Claims; Par. No. [0021]; examples (Family: none)	1, 4, 6-8 2, 3, 5, 9
X ✓ A	JP 10-146187 A (Asada Shoji Kabushiki Kaisha), 02 June, 1998 (02.06.98), Claims; Par. No. [0001]; examples (Family: none)	1, 4, 6-8 2, 3, 5, 9
X ✓ A	JP 5-51305 A (Sumitomo Chemical Co., Ltd.), 02 March, 1993 (02.03.93), Claims; Par. No. [0016]; examples (Family: none)	1, 4, 6-8 2, 3, 5, 9
X ✓ A	JP 2003-277210 A (Mitsui Chemicals, Inc.), 02 October, 2003 (02.10.03), Claims; Par. No. [0024]; examples (Family: none)	1, 4, 6-8 2, 3, 5, 9
E, X ✓ E, A	JP 2005-145 A (Katakura Chikkarin Kabushiki Kaisha), 06 January, 2005 (06.01.05), Claims; Par. No. [0018]; examples (Family: none)	1, 5-8 2-4, 9